

28

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



Application Serial No. .... 08/846,671  
Filing Date ..... April 30, 1997  
Inventor ..... Kei-Yu Ko  
Assignee ..... Micron Technology, Inc.  
Group Art Unit ..... 1763  
Examiner ..... George A. Goudreau  
Attorney's Docket No. .... MI22-2041  
Title: Undoped Silicon Dioxide as Etch Stop for Selective Etch of Doped Silicon Dioxide

**POWER OF ATTORNEY BY ASSIGNEE AND CERTIFICATE BY ASSIGNEE**  
**UNDER 37 CFR § 3.73(b)**

To: Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

**MICRON TECHNOLOGY, INC.**, the Assignee of the entire right, title and interest in the above-identified patent application by assignment attached hereto, hereby appoints the attorneys and agents of the firm of WELLS ST. JOHN P.S., listed as follows:

David P. Roberts	Reg. No. 23,032
Randy A. Gregory	Reg. No. 30,386
Mark S. Matkin	Reg. No. 32,268
Deepak Malhotra	Reg. No. 33,560
Mark W. Hendrickson	Reg. No. 32,356
David G. Latwesen	Reg. No. 38,533
George G. Grigel	Reg. No. 31,166
Keith D. Grzelak	Reg. No. 37,144
James D. Shaurette	Reg. No. 39,833
Frederick M. Fliegel	Reg. No. 36,138
D. Brent Kenady	Reg. No. 40,045
James E. Lake	Reg. No. 44,854
Jennifer J. Taylor	Reg. No. 48,711

and also attorneys Michael L. Lynch (Reg. No. 30,871) and Charles B. Brantley II (Reg. No. 38,086) of Micron Technology, Inc., as its attorneys with

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full power of substitution to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

The Assignee certifies that the above-identified Assignment has been reviewed and to the best of Assignee's knowledge and belief, title is in the Assignee, and a copy of the Assignment is submitted herewith.

Please direct all correspondence regarding this application to:

Customer No. 021567  
Wells St. John P.S.  
Attn: Mark S. Matkin  
601 West First Avenue, Suite 1300  
Spokane, WA 99201-3828  
Telephone: (509) 624-4276  
Facsimile: (509) 838-3424

MICRON TECHNOLOGY, INC.

Dated: 8-30-02 By: MLL  
Name: Michael L. Lynch, Esq.  
Title: Chief Patent Counsel

Attachments: *Copy of Assignment, Copy of Board of Directors' Resolution*

WHEN RECORDED RETURN TO:

Workman, Nydegger & Seeley  
1000 Eagle Gate Tower  
60 East South Temple  
Salt Lake City, Utah 84111

PATENT APPLICATION  
Docket No: 11675.114

04/30/97  
T1998/80

### A S S I G N M E N T

I, Kei-Yu Ko of 4611 E. Rockbury Ct., Meridian, Idaho 83642, have invented a method and apparatus entitled UNDOPED SILICON DIOXIDE AS ETCH STOP FOR SELECTIVE ETCH OF DOPED SILICON DIOXIDE, hereinafter called the "invention."

Preferred embodiments of said invention are disclosed in a United States patent application executed concurrently herewith by me and now identified as File No. 11675.114 of the law firm of Workman, Nydegger & Seeley, 1000 Eagle Gate Tower, 60 East South Temple, Salt Lake City, Utah 84111, and filed in the United States Patent and Trademark Office as Serial No. 081846,671 on Apr. 130, 1997. (I hereby authorize the attorneys of Workman, Nydegger & Seeley to insert said serial number and filing date when known.)

The Assignee, Micron Technology, Inc., a corporation of the State of Delaware, having a principal place of business at 8000 South Federal Way, Boise, Idaho 83707-0006, desires to secure the entire right, title and interest in said invention.

For good and valuable consideration paid to me by the Assignee, the receipt and sufficiency of which I hereby acknowledge, I HEREBY ASSIGN TO THE ASSIGNEE:

The entire right, title and interest in said invention in the above-identified United States patent application and in all divisions, continuations and continuations-in-part of said application, or reissues or extensions of Letters Patent or Patents granted thereon, and in all corresponding applications filed in

countries foreign to the United States, and in all patents issuing thereon in the United States and Foreign countries.

The right to file foreign patent applications on said invention in its own name, wherever such right may be legally exercised, including the right to claim the benefits of the International Convention for such applications.

I hereby authorize and request the United States Commissioner of Patents and Trademarks, and such Patent Office officials in foreign countries as are duly authorized by their patent laws to issue patents, to issue any and all patents on said invention to the Assignee as the owner of the entire interest, for the sole use and behalf of the said Assignee, its successors, assigns and legal representatives.

I hereby agree, without further consideration and without expense to me, to sign all lawful papers and to perform all other lawful acts which the Assignee may request of me to make this Assignment fully effective, including, by way of example but not of limitation, the following:

Prompt execution of all original, divisional, substitute, reissue, and other United States and foreign patent applications on said invention, and all lawful documents requested by the Assignee to further the prosecution of any of such patent applications.

Cooperation to the best of my ability in the execution of all lawful documents, the production of evidence, nullification, reissue, extension, or infringement proceedings involving said invention.

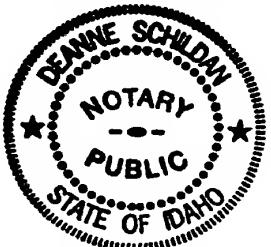
This assignment and agreement shall be binding upon my heirs and legal representatives.

Dated this 28 day of April, 1997.

Kei-Yu Ko  
Kei-Yu Ko

STATE OF IDAHO )  
: ss.  
COUNTY OF Ada)

On April 28, 1997, before me personally appeared Kei-Yu Ko, known to me to be the person described and who signed the foregoing Assignment in my presence and acknowledged under oath before me that he has read the same and knows the contents thereof and that he executed the same as his free act and deed and for the purposes set forth therein.



Deanne Schildan  
NOTARY PUBLIC  
Residing at Meridian, ID

My Commission Expires:

6/27/2002

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Rev. 09/95

**MICRON TECHNOLOGY, INC.  
BOARD OF DIRECTORS RESOLUTIONS**

**WHEREAS**, certain key employees require the authority to execute certain documents on behalf of the Company in order to enable them to effectively and efficiently carry out their responsibilities and duties to the Company.

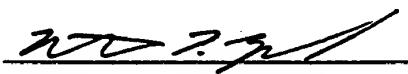
**NOW THEREFORE BE IT RESOLVED**, that the Board hereby approves and authorizes Mr. Michael L. Lynch, Assistant General Counsel for Intellectual Property, to execute on behalf of the Company, documents pertaining to the Company's patent prosecution matters, including but not limited to documents relating to representation before a patent examining authority, patent terms and other patent prosecution procedures, both in the United States and other countries, upon such terms and conditions as the General Counsel of the Company shall deem necessary or appropriate.

MICRON TECHNOLOGY, INC.  
CERTIFIED COPY OF RESOLUTIONS

I, Jan R. Reimer, the Assistant Secretary of Micron Technology, Inc. do hereby certify, that the resolutions attached hereto represent a complete, true and correct copy of the resolutions duly adopted by the Board of Directors of Micron Technology, Inc., a corporation duly organized and existing under the laws of the State of Delaware, at a meeting duly held on March 25, 1996, a quorum being present, and have been entered into the minutes of said meeting; that I am the keeper of the corporate seal and of the minutes and records of this Corporation; and that the said resolutions have not been rescinded or modified.

The resolutions attached hereto are in conformity with the Articles of Incorporation and Bylaws of the Corporation and are now in full force and effect.

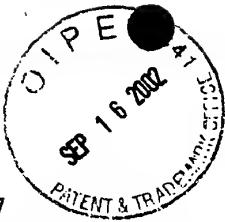
I further certify that the person whose name and signature is set out below is the person authorized to act for said corporation in transactions with and pursuant to the foregoing resolutions, and that such person is now duly qualified and acting in his respective capacity:

NAME AND TITLE	SIGNATURE
Michael L. Lynch, Assistant General Counsel for Intellectual Property	

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed the seal of the said corporation, this 16th day of May, 1996.

(SEAL)

  
Jan R. Reimer, Assistant Secretary



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

JULY 10, 1997

PTAS



\*10042999A\*

WORKMAN, NYDEGGER & SEELEY  
BRADLEY K. DESANDRO  
1000 EAGLE GATE  
60 EAST SOUTH TEMPLE  
SALT LAKE CITY, UTAH 84111

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, NORTH TOWER BUILDING, SUITE 10C35, WASHINGTON, D.C. 20231.

RECORDATION DATE: 04/30/1997

REEL/FRAME: 8536/0294  
NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:  
KO, KEI-YU

DOC DATE: 04/28/1997

ASSIGNEE:  
MICRON TECHNOLOGY, INC.  
8000 SOUTH FEDERAL WAY  
BOISE, IDAHO 83707

SERIAL NUMBER: 08846671  
PATENT NUMBER:

FILING DATE:  
ISSUE DATE:

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DIANE RUSSELE, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

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To the Honorable Commissioner of Patents and Trademarks, Washington, D.C. 20591

06-04-1997

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Patent and Trademark Office

100429999

1. Name of conveying party(ies):

Kei-Yu Ko

Additional name(s) of conveying party(ies) attached?  Yes  No

3. Nature of conveyance:

Assignment

Merger

Security Agreement

Change of Name

Other \_\_\_\_\_

Execution Date: \_\_\_\_\_

4. Application number(s) or patent number(s):

08846671

If this document is being filed together with a new application, the execution date of the application is: April 28, 1997

A. Patent Application No.(s)

B. Patent No.(s)

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Additional numbers attached?  Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:

Bradley K. DeSandro  
WORKMAN, NYDEGGER & SEELEY

Name: \_\_\_\_\_

Internal Address: \_\_\_\_\_

1000 Eagle Gate

Street Address: \_\_\_\_\_

60 East South Temple

Salt Lake City Utah 84111  
City: \_\_\_\_\_ State: \_\_\_\_\_ ZIP: \_\_\_\_\_

6. Total number of applications and patents involved:  1

7. Total fee (37 CFR 3.41).....\$ 40.00

Enclosed

Authorized to be charged to deposit account

8. Deposit account number:

(Attach duplicate copy of this page if paying by deposit account)

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06/03/1997 MGORDON 00000047 08846671

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Bradley K. DeSandro

Name of Person Signing

Signature

April 30<sup>th</sup>, 1997

4

Date

Total number of pages including cover sheet, attachments, and document:

Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patents & Trademarks, Box Assignments  
Washington D.C. 20231

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